

Indiana Department Of Homeland Security	Technician Level Training Program	Structure Collapse Module	Master Checklist KSA's
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Student Name:

This is intended as a comprehensive psychomotor skills checklist and is to be used to document student skills practice.

Directions: A master checklist must be completed for each student.

As the listed skills are completed, the evaluators shall complete the document.

Student must be afforded an opportunity to practice those skills prior to the skills evaluation. Performance of skills is dependent on the "usual and customary" practice of the jurisdiction(s) having authority. Only those skills actually completed shall be recorded as having been completed. Instructors must record both the date(s) that the skill was completed and their respective initials. When the skill is performed satisfactorily, the "Sat." column should be checked. However, if the skill is NOT performed satisfactorily, then the "Unsat." column should be checked.

Part 1: Psychomotor Structural Collapse Rescue Skills Practice Checklist

Skills Practiced	NFPA Standard	Date	Initials	Sat.	Unsat.	Date	Initials	Sat.	Unsat.
00:01 Personnel operating at the technician level shall meet all awareness and operations level requirements regarding Structural Collapse as specified in NFPA 1670, 2004 Edition.	5.4.1								
00:02 Personnel operating at the technician level shall meet technician level requirements regarding rope, confine space, vehicle/machinery, and trench/excavation as specified in NFPA 1670, 2004 Edition.	5.4.2								
00:03 Personnel operating at the technician level shall work safely and effectively at structural collapse incidents involving concrete tilt-up, reinforced concrete, and steel construction.	5.4.3								
00:04 Personnel operating at the operations level shall meet all awareness and operations level requirements regarding Hazards Material as specified in NFPA 472, 2002 Edition <i>Standard for Professional Competence of Responders to Hazards Material Incidents.</i>	5.4.3								
01:00 Hazard Recognition									
01:01 Perform hazard recognition of structural collapse incidents involving the collapse or failure of concrete tilt-up, reinforced concrete, and steel construction with consideration of the following:	5.4.2								
01:02 Size-up of existing and potential conditions.	5.4.3 (1)								
01:03 Identification of the resources necessary to conduct safe and effective structural collapse search and rescue operations.	5.4.3 (3)								
01:04 Implement procedures for carrying out site control and scene management.	5.4.3(1)								
01:05 Recognition of unique hazards associated with structural collapse.	5.4.3 (2)								
Skills Practiced	NFPA Standard	Date	Initials	Sat.	Unsat.	Date	Initials	Sat.	Unsat.
02:00 Established tool / equipment area									
02:01 Identify tools needed to perform rescue operations in concrete tilt-up, reinforced concrete, and steel construction.	5.4.3 (4)								
02:02 Assembled equipment used for breaching, cutting, boring, lifting, and stabilizing.	5.4.3 (4)								
02:03 Tested / inspected equipment prior to being used.	5.4.3 (4)								
02:04 Trouble shoot situations and problems with tools.	5.4.3 (4)								
02:04 Inventory and documentation of all tools.	5.4.3 (4)								
02:05 Demonstrate the proper use of rotary hammer.	5.4.3 (4)								
02:06 Demonstrate the proper use of rotary saw.	5.4.3 (4)								
02:07 Demonstrate the proper use of breakers.	5.4.3 (4)								
02:08 Demonstrate the proper use of core drill.	5.4.3 (4)								
02:09 Demonstrate the proper use of reciprocating saw.	5.4.3 (4)								

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---	--------------------------------------	------------------------------	---------------------------

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02:10 Demonstrate the use of Rebar cutters, manual and hydraulic.	5.4.3 (4)								
02:11 Demonstrate the use of Diamond-tip chain saw.	5.4.3 (4)								
02:12 Demonstrate the use of Hydraulic rescue tools.	5.4.3 (4)								
02:13 Demonstrate the proper use of exothermic torch.	5.4.3 (4)								
02:14 Demonstrate the proper use of oxy/acetylene torch.	5.4.3 (4)								
03:00 Search Operations									
03:01 Identify tools needed to perform search operations in concrete tilt-up, reinforced concrete, and steel construction.	5.4.3 (3)								
03:02 Implement a strategic and tactical plan for use of technical and non-technical search methods.	5.4.3 (3)								
03:03 As a member of search team, perform technical / non-technical search tactics.	5.4.3 (3)								
03:04 As a member of search team, performed support / equipment member assignment.	5.4.3 (3)								
04:00 Lifting, Rigging, Moving Operations									
04:01 Demonstrate the ability to accurately calculate load weights.	5.4.3 (4)								
04:02 Demonstrate the ability to raise and lower a load by the following methods.	5.4.3 (4)								
04:03 Pry Bars	5.4.3 (4)								
04:04 Jacks	5.4.3 (4)								
04:05 Air Bags	5.4.3 (4)								
04:06 Demonstrate the ability to move a load:	5.4.3 (4)								
04:07 Inclined Plane	5.4.3 (4)								
04:08 Levers	5.4.3 (4)								
04:09 Demonstrate Class I lever.	5.4.3 (4)								
04:10 Demonstrate Class II lever.	5.4.3 (4)								
04:11 Demonstrate Class III lever.	5.4.3 (4)								
04:12 Pulleys	5.4.3 (4)								
04:13 Demonstrate the ability to stabilize the load while raising, moving, and lowering.	5.4.3 (4)								
04:14 Demonstrate the proper technique for select debris removal with the use of hand tools.	5.4.3 (4)								
04:15 Demonstrate the proper methods to applying anchors to concrete.	5.4.3 (4)								
04:16 Construct wire rope single basket hitch on a load.	5.4.3 (4)								
04:17 Construct wire rope single chocker on a load.	5.4.3 (4)								
04:18 Construct nylon web sling on a load.	5.4.3 (4)								
04:19 Install shackle connection points to load.	5.4.3 (4)								
04:20 Demonstrate crane hand signals.	5.4.3 (4)								

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Skills Practiced	NFPA Standard	Date	Initials	Sat.	Unsat.	Date	Initials	Sat.	Unsat.
05:00 Breaching, Breaking, Cutting, and Burning Operations.									
05:01 Demonstrate relief cuts.	5.4.3 (4)								
05:02 Demonstrate a bevel cut for a "lift out".	5.4.3 (4)								
05:03 Demonstrate a step cut.	5.4.3 (4)								
05:04 Demonstrate a stitch drill breach.	5.4.3 (4)								
05:05 Demonstrate a dirty breach.	5.4.3 (4)								
05:06 Demonstrate proper technique for plunge cut.	5.4.3 (4)								
05:07 Demonstrate proper technique for performing piercing and line cut with oxy/acetylene torch.	5.4.3 (4)								
05:08 Demonstrate proper technique for performing piercing and line cut with exothermic torch.	5.4.3 (4)								
05:09 Demonstrate cutting tensioned cable or wire rope.	5.4.3 (4)								
06:00 Extrication Operations.									
06:01 Packaged or assisted with packaging a victim in a simulated confined area.	5.4.3 (5)								
06:02 Remove victim from elevated or below grade areas.	5.4.3 (5)								
06:03 Provide initial medical treatment and provides pertinent information concerning victim to EMS per AHJ protocols.	5.4.3 (5)								
07:00 Shoring Operation (assembly /cutting)									
07:01 Executed role of area preparation member of shore assembly team.	5.4.3 (4)								
07:02 Executed role of layout member of cutting team.	5.4.3 (4)								
07:03 Executed role of cutting member of cutting team.	5.4.3 (4)								
07:04 Executed role of equipment member of cutting team.	5.4.3 (4)								
07:05 As a member of a Shoring team constructed the following:	5.4.3 (4)								
07:06 Determine insertion point.	5.4.3 (4)								
07:07 Determine Raker Shore Angle & Length (45 degree)	5.4.3 (4)								
07:08 Determine Raker Shore Angle & Length (60 degree)	5.4.3 (4)								
07:09 Raker Shore Solid Sole.	5.4.3 (4)								
07:10 Raker Shore Split Sole.	5.4.3 (4)								
07:11 Anchor system.	5.4.3 (4)								
07:12 Diagonal Bracing.	5.4.3 (4)								
07:13 Flying Raker Shore.	5.4.3 (4)								
07:14 "T" Shore.	5.4.3 (4)								
07:15 Window Shore.	5.4.3 (4)								
07:16 Door Shore.	5.4.3 (4)								
07:17 Vertical Shore.	5.4.3 (4)								
07:18 Horizontal Shore.	5.4.3 (4)								
07:19 Laced Post Shore.	5.4.3 (4)								
07:20 Sloped Floor.	5.4.3 (4)								
07:21 Demonstrate the proper use of Pneumatic Shores.	5.4.3 (4)								
07:22 Demonstrate the proper technique for Screw Jacks.	5.4.3 (4)								
07:23 Demonstrate the proper technique for Box Cribbing.	5.4.3 (4)								
07:24 Demonstrate the proper use of Box Cribbing on Sloped Floor.	5.4.3 (4)								

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Student Name:

Instructor's Signature:

Date:

Student Comments: (The student is encouraged to respond to the contents of this checklist. If the student does not wish to make any comments, then "NA" should be written in this space by the student.)

Student's Signature:

Date:

Student's Acknowledgment:

I acknowledge that this document has been reviewed by me. I also certify that I was provided with an opportunity to practice the skills listed above and marked as having been practiced by me and acknowledge those skills marked as unsatisfactory and understand the recommendations related to those unsatisfactory skills.

I also understand that this document may become a part of my training records retained by my respective affiliated jurisdiction and may be retained and reviewed by the sponsoring agency.

Student's Signature: _____ Date: _____

Affiliated Agency: